

Grade 6 Math Pacing Guide, 2011– 2012

	September	October	November	December	January	February	March	April	May	June
Week 1	<p>Students are in session Thursday & Friday only. Supply list are handed out.</p> <p>Diagonstic & Placement Tests</p>	<p>Topic: -Properties of Numbers.</p> <p>6.N.2, 6.N.3, 6.N.4, 6.N.5</p> <p>POW Weekly Assessment</p>	<p>Benchmark Qtr. 2</p> <p>Topic: -Multiplying Fractions -Dividing Fractions</p> <p>6.N.17 6.PS.13 6.N.19</p> <p>POW Weekly Assessment</p>	<p>Topic: -Adding Decimals -Subtracting Decimals -Multiplying Decimals -Dividing Decimals</p> <p>5.N.23 6.CN.5 6.N.27 6.PS.13 6.CN.3</p> <p>POW Weekly Assessment</p>	<p>Topic: -Percent of a Number -Sales & Discounts -Estimate Percents</p> <p>6.N.12 6.N.26 6.N.7 6.N.10</p> <p>POW Weekly Assessment</p>	<p>Benchmark Qtr. 3</p> <p>Topic: Algebra -Translating one step verbal expressions -Translating two step verbal expressions -Translating two step verbal sentences into equations</p> <p>6.A.1 6.A.2 6.A.3</p> <p>POW Weekly Assessment</p>	<p>Topic: -Area of a triangle and quadrilaterals -Area of composite figures</p> <p>6.G.2 6.G.3</p> <p>POW Weekly Assessment</p>	<p>Benchmark Qtr. 4</p> <p>Topic: Probability -Sampling -frequency tables -Venn diagrams -Choosing a graph</p> <p>6.S.1 6.S.2 6.S.3 6.S.4</p>	<p>Topic: Algebra -Review of 6th grade introduction to intergers (absolute Value) -Adding Intergers -Subtracting Intergers</p> <p>6.N.13 7.N.12 7.N.13</p>	<p>Topic: -Outcomes of compound events -Arrangements -Probability of Dependent Events</p> <p>6.S.9 6.S.11 6.S.10</p>
Week 2	<p>Topic: Review of 5th grade Topics</p> <p>- A Plan for Problem Solving</p> <p>-Decimals to Thousandths</p> <p>-Algebraic Expressions</p> <p>5.PS.3 5.N.8 5.A.2</p> <p>Problem of the Week Weekly Assessment</p>	<p>Topic: -Greatest Common Factors -Prime Factorization -Least common Multiple</p> <p>5.N.15 6.PS.15 6.N.24 6.PS.13 5.N.13 6.CM.9</p> <p>POW Weekly Assessment</p>	<p>Topic: -Multiplying Mixed Numbers -Dividing Mixed Numbers</p> <p>6.N.18 6.A.2</p> <p>POW Weekly Assessment</p>	<p>Topic: -Writing Decimals as Fractions -Writing Fractions as Decimals</p> <p>6.N.21 6.CN.3 6.N.20</p> <p>POW Weekly Assessment</p>	<p>Topic: -Equivalent Ratios & Proportions -Solve Proportions -Rates</p> <p>6.N.9 6.A.5 6.N.6 6.N.8</p> <p>POW Weekly Assessment</p>	<p>Topic: Evaluating expressions with one variable Solving two step equations Algebra-formulas</p> <p>6.A.2 6.A.4 6.A.6</p> <p>POW Weekly Assessment</p>	<p>Topic: -Introduction to Volume of Prisms -Locating points on a coordinate plane -Finding the area of composite rectangular figures on a coordinate plane</p> <p>6.G.4 6.G.10 6.G.11</p> <p>POW Weekly Assessment</p>	<p>Spring Break</p>	<p>Topic: -Multiplying Intergers -Dividing Intergers</p> <p>7.N.12</p>	<p>Topic: -Review Coordinate plane -Translations</p> <p>6.G.10 6.CM.4</p>

Week 3	Topic: Review of 5th grade Topics -Classify Geometric Shapes & Symmetry -Measurement -Statistics & Probability 5.G.4, 5G.6, 5.G.11 5.M.5 5.S.4 POW Weekly Assessment	Topic: -Equivalent Fractions -Simplifying Fractions -Adding Fractions -Subtracting Fractions 6.N.21 6.R.1 6.N.16 6.PS.13 POW Weekly Assessment	Topic: Thanksgiving Week* Vacation Packets -Locate & Order Decimals -Rounding Decimals -Estimating Sums & Differences 6.N.27 6.CN.3 6.RP.1 POW Weekly Assesement	Topic: -Modeling Percents -Percent & Fractions -Percent & Decimals -Circle Graphs To differentiate use 10 by 10 grid. 6.N.11 6.N.21 6.N.26 6.S.4 POW Weekly Assesement Christmas Pack-Given	Topic: -Introduction to Intergers -Absolute Value 6.N.13 POW Weekly Assessment	Mid-Winter Recess	Topic: Measurement -Capacity -Measuring and estimating capcity and volume -Estimating area and circumference -Reasonable estimates 6.M.1 6.M.2 6.M.3 6.M.4 6.M.5 6.M.6 6.M.7 6.M.8 6.M.9	Review Week	Topic: -Zero Pairs -Revisit Evaluating expressions with two variables -Translating two Step Verbal Sentences into equations. 7.N.12 6.A.2 6.A.3	Topic: -Reflections -Rotations 6.G.10 6.CM.4
Week 4	Benchmark Qtr. 1 Topic: Number Sense and Operations -Place Value to Trillions -Standard Form -Word Form -Expanded Notation -Order of Operations 6.N.1 6.N.22 POW Weekly Assessment	Topic: -Adding Mixed Numbers -Subtracting Mixed Numbers 6.N.16 6.N.18 6.PS.13 POW Review of 1st Qtr Quartely Exam Administered 1st Qtr. Topics Assessed	Topic: -Converting Mixed Numbers to Improper Fractions -Converting Improper fractions to mixed numbers -Decimal Place Value -Standard Form -Word Form -Expanded Notation 6.N.21 6.R.1 6.N.21 6.N.14 6.N.15 POW Weekly Assesement	Winter Recess	Topic: -Locate & Order Rational Numbers 6.N.14 6.N.15 POW Review Second Quarter Topics Quarterly Assessment #2 Administered	Topic: Geometry -Circle relationships -Sector of a circle -Proportional sides and similar triangles 6.G.1 6.G.5 6.G.6 6.G.7 6.G.8 6.G.9 POW Weekly Assessment	Topic: Statistics & Probability -Interpreting information from graphs -Mean, median mode and range -Making predictions 6.S.5 5.S.6 6.S.7 6.S.8 Review Third Quarter Topics Quarterly Assessment #3 Administered	NYS Math Test	Topic: -Solving Two Step Equations -Solving Proportions in Context 6.A.4 6.A.5 Review Fourth Quarter Topics Quarterly Assessment #4 Administered	Review For Final Exam

Resources	<div>-Coach Book</div> <div>-Impact course 1</div> <div>-Quick Review - Handbook</div> <div>-Math Connects Course 1</div> <div>-Resource Masters</div>									
Technology	Examview	<div>glencoe.com</div> <div>iteachiilearn-</div> <div>compass</div> <div>learning</div> <div>TeacherWorks</div> <div>Brainpops</div> <div>Discovery</div> <div>Education</div>	<div>glencoe.com</div> <div>iteachiilearn-</div> <div>compass learning</div> <div>Teacher Works</div> <div>Brain Pops</div>	Compass learning lesson- video Teacher Works	Examview Compass Learning glencoe.com Teacher Works					

Differentiated Instruction ELL SN SS	<p>Instructional Modifications</p> <p>-Use visuals “hands-on”, activities, manipulatives, foldables, student built glossary.</p> <p>Provide students with a place value chart to the trillions place.</p> <p>Use the mnemonic device “Please Excuse My Dear Aunt Sally” to represent Parenthesis Exponents Multiplication/Division Addition/Subtraction.</p> <p>Have students write PEMDAS and cross out each letter as they evaluate each expressions.</p> <p>Assessment Modifications-</p> <p>-Time & ½</p> <p>-Double Time</p>	<p>Number Properties</p> <p>-present problems relating to everyday tasks.</p> <p>Manipulatives such as fraction models- strips, pieces etc.</p> <p>Graphic Organizer- for factors</p> <p>Foldables</p> <p>Student Built Glossary</p> <p>Equivalent Fractions-Counters</p> <p>Use after the exercises.</p> <p>-Have students describe two or three things about the lesson that they found difficult to understand. Then have them address each item by writing explanations that will help them review the material later</p> <p>Assessment Modifications-</p> <p>-Time & ½</p> <p>-Double Time</p>	<p>Use grids to model multiplying and dividing fractions.</p> <p>Provide students with a place value chart to the ten-thousandths place.</p> <p>Use 10 by 10 grid</p> <p>Foldables</p> <p>Student Built Glossary</p> <p>Plan ways for ELLs to participate in class and in cooperative learning groups.</p> <p>Have students create a poster that explains how to multiply and divide fractions.</p> <p>Assessment Modifications-</p> <p>Give open-book test.</p> <p>-Time & ½</p> <p>-Double Time</p> <p>Provide concrete “real” examples and experiences.</p>	<p>-To differentiate use 10 by 10 grid.</p> <p>Foldables:</p> <p>Students write about the relationship of percent to fractions and decimals.</p> <p>Bring in advertisements which include percents.</p> <p>Student Built Glossary</p> <p>Assessment Modifications-</p> <p>-Time & ½</p> <p>-Double Time</p>	<p>Foldables:</p> <p>Building Vocabulary</p> <p>-Student Built Glossary</p> <p>-Have students make a table which will help them associate a positive and a negative integer based on the word: ex. deposit-positive withdrawal-negative</p> <p>Integers - Provide students with a number line.</p> <p>Assessment Modifications-</p> <p>-Time & ½</p> <p>-Double Time</p>					<p>The use of counters to model zero pairs and also to model adding and subtracting integers.</p> <p>Keep change</p> <p>Change- subtracting Integers.</p>	
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AL	Use the orders of operations and the symbols () $\times \div + -$ to create a true statement. Sample answers given. $5 - 4 - 3 + 2 = 1$ $(5 + 4) \div 3 - 2 = 1$	Number Properties - Tell students that the Distributive Property works in both directions. $a(b + c) = ab + ac$ AND $ab + ac = a(b + c)$ For Example: Present students with the problem $2 \times 252(x - 5)$. Tell students that they will use this when they learn how to factor.	Have students multiply mixed numbers mentally and write the steps they did in order to solve the problem: ex. $3 \frac{1}{2} \times 10$ think 3×10 think $\frac{1}{2}$ of 10	Real World Application: Have students describe situations in real life in which rounding numbers would be helpful.	Explain to students that because fractions are parts of integers, they can be positive and negative, too. Then have students create additional cards with fractions and add them to the integer cards they have made.	Have students come up with their own rules based on the counters or real life examples used in class			Have students come up with the rules by using counters, number lines or zero pairs.	

Standards are listed under each initial topic heading.
Memory and Reasoning Standards are not listed because they spiral throughout the lessons.

Note: M = Monday, T = Tuesday, W = Wednesday, Th = Thursday, F = Friday
Note: ELL= English Language Learners AL= Above or Beyond Grade Level SS= Struggling Students SN= Special Needs